

RAW SEQUENCE LISTING

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Application Serial Number: 10/535, 523 A
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/535,523A

DATE: 09/26/2005
TIME: 12:50:39

Input Set : D:\seq listing.app
Output Set: N:\CRF4\09262005\J535523A.raw

3 <110> APPLICANT: The Government of the United States of America
5 <120> TITLE OF INVENTION: CELL LINES AND HOST NUCLEIC ACIDS RELATED TO INFECTIOUS
DISEASES

7 <130> FILE REFERENCE: 6395-66741-06
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/535,523A
C--> 9 <141> CURRENT FILING DATE: 2005-05-17
9 <150> PRIOR APPLICATION NUMBER: PCT/03/037143
10 <151> PRIOR FILING DATE: 2003-11-18
12 <150> PRIOR APPLICATION NUMBER: US 60/482,604
13 <151> PRIOR FILING DATE: 2003-06-25
15 <150> PRIOR APPLICATION NUMBER: US 60/427,464
16 <151> PRIOR FILING DATE: 2002-11-18
18 <160> NUMBER OF SEQ ID NOS: 845
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 937
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
28 <220> FEATURE:
29 <221> NAME/KEY: misc_feature
30 <222> LOCATION: (1)..(937)
31 <223> OTHER INFORMATION: n is a, g, c, or t
33 <400> SEQUENCE: 1

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35 cgaaaacgatc ctyrgstacc gcttgccaaa cctacaggtg gggctttca agaggtctcc 120
36 agaccttaggg gagcatctca gcgtcactcg ctgtccagtt gctgtgatca ggtgctttgg 180
37 ggtttgtgtg actccagaat ccactgggcc tgtgtgtcag aagacaaaag ttaaccataa 240
38 ggcacagaag aaagccctct gctgaagcca tcgttggccc acatgcattt caggacaag 300
39 aaatgaagat cggagacttt caagttgtgc ccaggactca cctgctccca ggagacaaaa 360
40 ggcacacacag cagaggagcc tgaagcccat ggcaggatct cctagcttgg ggctgggtgtc 420
41 tctgttagtaa gcattctgaa gttcctaagc tcccttctc ctgataggag cattgacactg 480
42 tcatgtcacc acactgacat actttccct gcaggccact ccagccact gtactctttg 540
43 gcaggcctca ggttctgcta ctccatgtac tattctgtc ttgcacaggg cagaagctaa 600
44 aggtgaggag gactgaacac agtacccaaca tacccacatc acaccttact ttccctctgcc 660
45 cgcctgtcc ctgcctgtac actgattccc cagccctgc caccggcc ccttcaccct 720
46 ccactgccc tgcagcagca gagacactcc ctcctgtatg caaaactgagg cctctggcac 780
47 cccaaactctt tcaaggcaat gatagtctgt gcttaactct acatggccag gccccactc 840
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49 accccgaaga aaagaancaa nngatctttt ggnnacc 937
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 1515
52 <212> TYPE: DNA
53 <213> ORGANISM: Homo sapiens
54 <220> FEATURE:

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74 <221> NAME/KEY: misc_feature
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76 <223> OTHER INFORMATION: n is a, c, g, or t
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83 tatgcagtgc tgccataacc atgagtgata acactgcggc caacttactt ctgacaacga 180
85 tcggaggacc gaaggagcta accgctttt tgcacaacat gggggatcat gtaactcgcc 240
87 ttgatcggtt ggaaccggag ctgaatgaag ccataccaaa cgacgagcgt gacaccacga 300
89 tgcctgcage aatggcaaca acgttgcgc aactattaac tggcgaacta cttactctag 360
91 cttccggca acaattaata gactggatgg aggcgataa agttgcagga ccacattctgc 420
93 gctcgccct tccggctggc tggtttattt ctgataaattc tggagccggt gagcgtgggt 480
95 ctcgcggat cattgcagca ctggggccag atggtaagcc ctcccgtatc gttagttatct 540
97 acacgacggg gagtcaaggca actatggatg aacgaaatag acagatcgct gagataggtg 600
99 cctcaactgtat taagcatting gkaanctgtc agaccattkt ttactgcata tacsgatcca 660
101 ttgccttat ctcaaactct tattatgaaa tcactnccct tgagagaraa aaagcctttt 720
103 tctctnnngg atkgtcccag magytyccga mcatccccac tycccaacct tatgkggccc 780
105 agcaatgans cctagtagta ggaaaatcty tatggatacy ggkgnctgak ggaaarattc 840
107 ttcytctcat gaarwgtatgg kgactggggc tytggatgc tcacggaaat ccctatttcc 900
109 cccacaaaaga agttattttta ttacacaacc atttggatga cccccctttt ctccaaattn 960
111 nccaaataaaa tctgtaaagg tcacaggtga agttcttctc tttaaagagct actccatgct 1020
113 aagttcagcg agaacttggg gtaccctaga cattttccaa gagatgcctt tcttgcact 1080
115 ctttcaata agtaagcatg ctttgctctg cactgggtgt cacctgtt ggatgctgtt 1140
117 gtcctgcct tgccttat tctgtccaca tggtttctc ataggatgt gcttaggtca 1200
119 gcccggatgtt ttgaaccagt caacaagtcc aggttgggtgt ggagccctt tagtacctcc 1260
121 ctttgcagga ataatgtgc acccagaaac tccctcagag cctctccact gggagggggcc 1320
123 ttgtgaccat tcctggttt atccttcttgc tccagcatcc catgtggcca atggggccct 1380
125 ttcattttca atggatctc antnttaca gtaagttata ttattgcct acatngaact 1440
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129 anaatccact tcgnn 1515

132 <210> SEQ ID NO: 3
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139 <221> NAME/KEY: misc_feature
140 <222> LOCATION: (1)..(885)
141 <223> OTHER INFORMATION: n is a, g, c, or t
143 <400> SEQUENCE: 3

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146 cgagttcttc tgagccggac tctgggggtc gaaatgagct agcccttaag taacgccatt 120
148 ttgcaggca tggaaaata cataactgag aatggaaaag ttcagatcgaa ggtcaggaac 180
150 agatggaaaca gggtcgaccg gtgcaccgtt cgaccctaga gaaccatcgat atgttccag 240
152 ggtcccccaaa ggacctgaaa tgaccctgtt ctttatttgc actaaccat cagttcgctt 300
154 ctcgtttctg ttcgcgcgt tctgtccccc gagctcaata aaagagccca caaccctca 360
156 ctcggggcgc cagtctccg attgactgag tgcgggggtt acccggtat ccaataaacc 420
158 ctcttgcagt tgcattccgac ttgtggtctc gctttctt gggagggctt cctctgagtg 480
160 attgactacc cgtcagcggg ggtcttccac tctctgttgc ctggtaccaa cagagcctgg 540
162 accagggccctt ccagttccctc attcgttattt ataatggaga agagagagca aaaggaaaca 600

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164 ttcttgaacg attctccgca caacagttcc ctgacttgca ctctgaacta aacctgagct	660
166 ctctggagct gggggactca gctttgtatt tctgtgccag cagcgtaggt ggttagcttga	720
168 aacagttctt cgggcccagg acacggctca ccgtgctagg taagaaggg gctccagtgg	780
170 gagagagggg gagcagccca ncctgnncga ccccanancc tggtnnttagg ggagtggnc	840
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189 acatagaaaa aaatctgaaa agatatctca aaagcccaga catttatca cactaacgg 120	
191 gaaaagcata ccccacagtg tcagtgagg 240	
193 ctcagtggta gtgaggtgtt cctctcactc cttctgagta gaggaagcca agaggaa 180	
195 tggaaacttgt accatcatcc agtggtgata aagcctctgt ccctccaccc tacccccc 300	
197 ttatcagtgg caaccacatg gctagtggta cccctccgc tcctagccag aatgatata 360	
199 gcagaggcct agagagtagc ccaaaaactc atctgcaccc agcaggactg agtttccta 420	
201 ccccccaccaa tggaaagccaa gtgaggaacc taaggcattca cctctcactc agcaggaacc 480	
203 agacaacacc ccctaacaaca cacacacaca cacacacaca cacaccctc tggtagtgg 540	
205 gtatcaagga ggcttgataa aatagaagat ttaaatagga tccattggcc ttatctcaaa 600	
207 ctcttattat gaaatcactc ctttgagaga gaaaaaaagcc ttttcttggcc ttatctcaaa 660	
209 agcagctccc gaccatcccc actcccaac cttatgtggc cccagcaatg agcttagtag 720	
W--> 211 taggaaaatc tctatggata ctggtgctga tggaaagatt cttcctctca nagaatgtatg 780	
213 gtgactgggg ctctggatg ctcacgggaa tccatttcc cccacaagaa ntattttat 840	
215 naccaaccat ttggatgacc ctttttntt ccatttncca annaatttgt aagncaag 900	
218 <210> SEQ ID NO: 5	
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234 ctaactccatg ctaagttcag cgagaacttg gggtaaccctt gacattttcc cagagatgt 180	
236 ttctttgtaa ctctttcaa taagtaagca tgcttgctc tgcaactgggt gtcacctgtg 240	
238 ttggatgctg ttgtccctgc cttgccctat attctgttca catggtttct tcataaggatg 300	
240 atgcttaggt cagccctgag gtttgaacca gtcaacaatg ccaggttggt gtggagtccc 360	
242 tttagtacct cccttgcag gaataatgt gcacccagaa actccctcag agctctcca 420	
244 ctggaggggc cttgtgacca ttcctgggtt actcctcttg ttccagcatc ccatgtggcc 480	
246 aatggggcccc tttcattttc aatggtatct caattttac agtaagttat attattgccc 540	
248 tacatcgaac tcatttttc tcagtgtaa ctgaggaaga atggagagga tgcccagaat 600	
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256	ggagcttcaa	gctctctcca	tctttgtcaa	gtccctgga	ctgagagggn	aaaatnacat	840
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275	gagttcttct	gagcgggact	ctggggttcg	aaatgagcta	gcccctaagt	aacgcattt	120
277	tgcaaggcat	ggaaaaatac	ataactgaga	atagaaaaat	tcatatcgag	gtcaggaaca	180
279	gatggaacag	ggtcgaccgg	tcgaccggtc	gaccctagag	aaccatcaga	tgttccagg	240
281	gtgccccaa	gacctgaaaat	gaccctgtgc	cttatttcaa	ctaaccatc	agttcgcttc	300
283	tcgcttctgt	tcgcgcgtt	ctgctcccg	agctcaataa	aagagccac	aaccctcac	360
285	tcggggcgcc	agtccctcga	ttgactgagt	cgcccggtt	cccggttatac	caataaaaccc	420
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289	ttgactaccc	gtcagcgcccc	gtctttact	ctctgtgtac	tggtaccaac	agagcctgga	540
291	ccagggcctc	cagttcctca	ttagtattta	taatggagaa	gagagagcaa	aagaaacat	600
293	tcttgaacga	ttctccgcac	aacagttccc	tgacttgcac	tctgaactaa	acctgagctc	660
295	tctggagctg	ggggactcag	ctttgtattt	ctgtgccagc	agcgttaggt	gtagcttcaa	720
297	acagttcttc	gggcccaggaa	cacggctcac	cgtgttaggt	aagaaggggg	ctccaggtgg	780
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320	actccagaat	ccactggggcc	tgtgtgtca	aagacaaaag	ttaaccat	ggcacagaag	180
322	aaaggctcc	gctgaagcca	tcgttggccc	acatgcattt	caggacaaag	aatgaagat	240
324	cggagactt	caagttgtgc	ccaggactca	cctgtccca	ggagacaaaa	ggccacacag	300
326	cagaggagcc	tgaagccat	ggcaggatct	cctagcttgg	ggctgggttc	tctgttagtaa	360
328	gcattctgaa	gttccataagc	tccctcttc	ctgataggag	cattgacact	tgtatgtcacc	420
330	acactgacat	actttccct	gcaggccact	ccagccact	gtactcttgc	gcaggcctca	480
332	ggttctgcta	ctccatgtac	tattcctgtc	ttgcacaggc	cagaagctaa	aggtgaggag	540
334	gactgaacac	agtaccaaca	tacccacatc	acacctact	ttcctctgc	cgccctgtcc	600
336	ctgcccctgac	actgattccc	cagcccttgc	cacccagcc	ccttcaccc	ccactgccc	660
338	tgcagcagca	gagacactcc	ctccttgatg	caaactgagg	cctctggcac	cccaactctt	720

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340	tcagggcaat gatagtctgt gcttaactct acatggccag gccccactca gggaaattctc	780
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361	taagtgcaga tttatttta tttttttt ttttttgcaga cagagtctcg ctctgtcacc	120
363	caggctagag tgcagtggca tgatcttggc tcactgcaac ctccacacctc caggtcaag	180
365	tgattcttgc cccctcgc cccaaatggc tagtattaca gacgcctgc accacgccc	240
367	gttaattttt gtacttttag tagagacagg tttcaccata ttggccaggc tggctcaaa	300
369	tcctcgaccc cagggtatcc tcctgcctca gcctccaaa gtgctggat tacaggcatg	360
371	agctaccacg tctggctaa gtgcatttgc cctataactaa caaaaccaca ttctgcctc	420
373	gaatgagaac agtctcctga acatcttgc tctttgcctg actcaaagcc tcaggtctaa	480
375	gcctcccat aatttcttagt ctcagcagaa agatcaatga caggagactc tccaggtgt	540
377	gaaattaacc aattaagtaa cctgggttgg catcctcccg tttgttacc accgtcacn	600
379	ctgccccacagg tatatccccc ctctcancca tatatgcaca aaccccccnc ccacgnaca	660
381	catannaana atttggaaaga ctanaaaatc aggcanggtt tancncaccc tggggctgg	720
383	agtatggnan cctggccgg nacatncata catttgc	755
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387	<211> LENGTH: 839	
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400	accttcacta caaggatatt acaacaggac attttttaaa acctcaaaca tcacccaaat	120
402	ttcttaagtgc aagtttattt ttatttttt tttttttt gagaacagagt ctcgcctgt	180
404	caccaggct agagtgcagt ggcattatct tggctcactg caacctccac ctccagggt	240
406	caagtgattc tcttgcctca gcctcccaag tagctagat tacagacgccc tgccaccacg	300
408	cccggttaat tttgtactt ttagtagaga caggttcac catattggcc aggctggct	360
410	caaactcctg acctcagggt atcttcctgc ctcagcctcc caaagtgcgt ggattacagg	420
412	catgagctac cacgtctggc ctaagtgcattt gttacccata ctaacaaaac cacacttctg	480
414	cctcgaatga gaacagtctc ctgaacatct tgcctcttgc cctgactcaa agcctcagg	540
416	ctaaggctcc ccataatttc tagtctcaggc agaaagatca atgacaggag actctccagg	600
418	tgtatggaaatt aaccaattaa gtaacctggg ttggcatctt cccgtttgtt caccagctca	660
420	cctcgtccca caggtatattc ctttctctca gccatatacg cacaaccccc ctcccacgg	720
422	cacacataga aanaatttgg aagactagaa aatcaggcna ggnnttanca caccctngag	780
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:11; N Pos. 9,10,26,39,684,689,694,697,700,703
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Seq#:15; N Pos. 782,784
Seq#:16; N Pos. 11,570,638,642,654,664,682,689,697,704,711,714,723,742,743
Seq#:16; N Pos. 754
Seq#:17; N Pos. 2,3,22,86,695,741
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Seq#:19; N Pos. 7,9,521,568,621,629,632,637,641,648,653,659,663,672,687,695
Seq#:19; N Pos. 709,712,715,721,733,739,745,747,758,759,763,764,766,768
Seq#:20; N Pos. 6,8,733,746,752,759,760,790,803,807,821,822,823,828,830,847
Seq#:20; N Pos. 848,856,860,861,869,872,874,876,881,882,895,912
Seq#:21; N Pos. 2,7,36,723,724,778,799,817,1461,1553,1586,1597,1599,1604
Seq#:22; N Pos. 8,22,712,798,837
Seq#:23; N Pos. 8,13,14,22,44,47,54,73,76,87,117,129,1519,1534,1539,1547
Seq#:23; N Pos. 1548,1550,1558,1560
Seq#:24; N Pos. 498,503,506,652,655,656,658,794,821,834,858,1335,1368,1375
Seq#:24; N Pos. 1402,1435,1437
Seq#:25; N Pos. 8,9,15,32,680,683,700,732,736,745,754,763,764,774,787,797
Seq#:25; N Pos. 800,805,809,814,815,816,819,830
Seq#:26; N Pos. 5,740,744,746,770,778,784,785,795,802,820,827,839,842,845
Seq#:26; N Pos. 852,854
Seq#:27; N Pos. 6,7,234,235,236,797,807,822,830,839,845,864,870,873
Seq#:28; N Pos. 3,9,13,16,17,18,19,20,21,24,27,30,31,32,33,34,39,43,47,49
Seq#:28; N Pos. 50,51,54,56,57,798,806,820,833,853,855,864,865,878,880,884

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/26/2005
PATENT APPLICATION: US/10/535,523A TIME: 12:50:40

Input Set : D:\seq listing.app
Output Set: N:\CRF4\09262005\J535523A.raw

Seq#:28; N Pos. 885,891,894,900,901
Seq#:29; N Pos. 2,8,9,18,23,26,35,41,50,809,813,826
Seq#:30; N Pos. 2,3,4,14,18,19,20,27,28,29,31,32,34,38,41,48,49,50,65,72,85
Seq#:30; N Pos. 90,99,771,782,789,822,827,848,858,862,872,873,879,881,884
Seq#:30; N Pos. 885,888,889
Seq#:31; N Pos. 12,21,574,604,688,691,713,715
Seq#:32; N Pos. 6,250

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:238,239,240,241

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/535,523A

DATE: 09/26/2005

TIME: 12:50:40

Input Set : D:\seq listing.app

Output Set: N:\CRF4\09262005\J535523A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:720
M:341 Repeated in SeqNo=4
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:780
M:341 Repeated in SeqNo=6
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:780
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
M:341 Repeated in SeqNo=9
L:439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
M:341 Repeated in SeqNo=10
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
M:341 Repeated in SeqNo=12
L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13
L:595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
M:341 Repeated in SeqNo=14
L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
M:341 Repeated in SeqNo=18
L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
M:341 Repeated in SeqNo=19
L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
M:341 Repeated in SeqNo=20
L:880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
M:341 Repeated in SeqNo=22
L:990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:1073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:480

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/535,523A

DATE: 09/26/2005

TIME: 12:50:40

Input Set : D:\seq listing.app

Output Set: N:\CRF4\09262005\J535523A.raw

M:341 Repeated in SeqNo=24

L:1120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0

M:341 Repeated in SeqNo=25

L:1161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0